PATENT COOPERATION TREATY

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From the INTERNATIONAL SEARCHING AUTHORITY		WIPO : FOI					
To: MARK C. COMTOIS 1667 K STREET, N.W. SUITE 700 WASHINGTON, DC 20006		PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY					
		(PCT Rule 43bis.1)					
·	Date of mailing						
Applicant's or agent's file reference	(day/month/year) FOR FURTHER						
GRA26 026 PC		See paragraph 2 below					
	g date (day/month/year)	Priority date (day/month/year)					
PCT/US05/16749 11 May 2005 (11.0	05.2005)	12 May 2004 (12.05.2004)					
International Patent Classification (IPC) or both national class							
IPC: H04B 7/15(2006.01) USPC: 455/11.1 Applicant							
ANDREW CORPORATION							
This opinion contains indications relating to the followin Box No. I Basis of the opinion	g items:						
Box No. II Priority							
	vith regard to novelty, inve	ntive step and industrial applicability					
Box No. IV Lack of unity of invention							
Box No. V Reasoned statement under Rule applicability; citations and expl		o novelty, inventive step or industrial satement					
Box No. VI Certain documents cited		·					
Box No. VII Certain defects in the internation	nal application						
Box No. VIII Certain observations on the inte							
2. FURTHER ACTION		·					
If a demand for international preliminary examination International Preliminary Examining Authority ("IPEA Authority other than this one to be the IPEA and the cl that written opinions of this International Searching Auth	A") except that this does hosen IPEA has notified the	not apply where the applicant chooses an le International Bureau under Rule 66.1 bis(b)					
If this opinion is, as provided above, considered to be IPEA a written reply together, where appropriate, with a of Form PCT/ISA/220 or before the expiration of 22 more	amendments, before the ex	piration of 3 months from the date of mailing					
For further options, see Form PCT/ISA/220.							
3. For further details, see notes to Form PCT/ISA/220.							
Name and mailing address of the ISA/ US Date of completion of this opinion Authorized officer							
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Shaima Q. Amineay Myenia Jaga					
P.O. Box 1450 Alexandria, Virginia 22313-1450		Telephone No. 571-272-78/4					
7 1 31 (571) 070 0001		Leschmone 140' 211-715-1814					

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International	application	No.
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PCT/US05/16749

DUX IV	o. I Basis of this opinion							
1. With	regard to the language, this opinion has been established on the basis of:							
	the international application in the language in which it was filed							
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).							
2. With inver	. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:							
a.	type of material							
	a sequence listing							
	table(s) related to the sequence listing							
b.	format of material							
	on paper							
	in electronic form							
c.	time of filing/furnishing							
	contained in the international application as filed.							
	filed together with the international application in electronic form.							
	furnished subsequently to this Authority for the purposes of search.							
3	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.							
4. Add	itional comments:							
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Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. Statement						
Novelty (N)	Claims	NONE	YES			
	Claims		3.00			
Invention star (IS)	Clair-	NONE	YES			
Inventive step (IS)	Claims	<u>NONE</u> 1-20	NO			
			•			
Industrial applicability (IA)		1-20	YES NO			
	Claims	NONE	IVO			
2. Citations and explanations:			, , , , , , , , , , , , , , , , , , , ,			
Please See Continuation Sheet						
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Form PCT/ISA/237 (Box No. V) (April 2005)						

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Supplemental Box

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V 2 Citations and Front			•		
V. 2. Citations and Expl Claims 1-20 lack novelty u	inder PCT Article 33(2)	as being anticipated b	y Bandeira (Bandeir	a et al. U.S. Publication 2	2002/0072,329).
Regarding claim 1, Ban Figures –1-10, paragraph communication system and 5, [0035], lines 1-22, the n [0042], [0054]-[0055], [00 paragraphs [0082], lines 1	[0005], lines 1-11, [000 I multiple base stations); nobile stations); at least (061], and [0083], the rej	6], lines 1-7, [0009], at least one mobile a one repeater (see for a peaters); and a contro	lines 1-10, [0017], li ppliance (see for exa example, Figure 1, po land management de	mple, Figure 1, paragrap tragraphs [0020], [0021 evice (see for example, F	l-16, the oh [0034], lines 1-], [0038] through 'igure 1,

Regarding claim 6, Bandeira discloses a method of determining if a signal, from a source transmitter, received at a receiver has passed through the a network device (see for example, Figures –1-10, paragraph [0005], lines 1-11, [0006], lines 1-7, [0009], lines 1-10, [0017], lines 1-11, [0038], lines 1-16, the communication system with network and receiving signal from the transmitter) comprising: scanning signals at the network device (see for example, Figures –1-10, paragraph [0005], lines 1-11, [0006], lines 1-7, [0009], lines 1-10, [0017], lines 1-11, [0020], [0038], lines 1-16, [0040], [0042], [0073], [0078], and [0088], the network and scanned signals); measuring an attribute of the scanned signals (see for example, paragraphs [0020], [0038], [0040], [0042], [0073], [0078], and [0088], scanning signals); and communicating to a system manager the attributes of the scanned signals measured at the network device (see for example, Figures –1-10, paragraph [0005], lines 1-11, [0020], [0038], lines 1-16, [0040], [0042], [0073], [0064], [0068], [0078], and [0088]); and, determining which signals are served by the network device based at least in part of the measured attributes (see for example, Figures –1-10, paragraph [0005], lines 1-11, [0006], lines 1-7, [0009], lines 1-10, [0017], lines 1-11, [0020], [0038], lines 1-16, [0040], [0042], [0073], [0064], [0078], and [0088]).

repeater further comprises a scanning receiver (see for example, paragraphs [0020], [0038], [0040], [0042], [0073], [0078], and [0088], the repeater receiver and scanning), and an interface wherein the scanning receiver is adapted to measure attributes of reverse link channels and wherein the interface operably connects the at least one repeater and the control and management device (see for example, Figures 1, 6-10, paragraphs [0020], [0038], [0040], [0042], [0073], [0078], [0082], lines 1-9, [0084], lines 1-7, [00881).

Regarding claim 15, Bandeira discloses a method of determining if a mobile appliances signal received at a base station has been operated on by one or more repeaters (see for example, Figures -1-10, paragraph [0005], lines 1-11, [0006], lines 1-7, [0009], lines 1-10, [0017], lines 1-11, [0020] -[0021], [0038] through [0042], [0054], [0061], [0083], the communication system with repeater and the base station received signal) comprising: scanning reverse channel signals at the one or more repeaters (see for example, paragraphs

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Supplemental Box

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[0020], [0038], [0040], [0042], [0073], [0078], and [0088], scanning signals); measuring one or more attributes of the scanned reverse channel signals (see for example, Figures 1, 6-10, paragraphs [0020], [0038], [0040], [0042], [0073], [0078], [0082], lines 1-9, [0084], lines 1-7, [0088]); transmitting to a system manager over a link the attributes of the scanned reverse channel signals and channel information of the reverse channel signals (see for example, Figures 1, 6-10, paragraphs [0020], [0038], [0040], [0042], [0073], [0078], [0082], lines 1-9, [0084], lines 1-7, [0088]); determining the proximity of the mobile appliance to the one or more repeaters based at least in part by the measured attributes (see for example, Figures -1-10, paragraph [0005], lines 1-11, [0006], lines 1-7, [0009], lines 1-10, [0017], lines 1-11, [0020], [0038], lines 1-16, [0040], [0042], [0073], [0064], [0068], [0078], and [0088]); and determining which reverse channel signals are served by the one or more repeaters based at least in part by the proximity of the mobile appliance to the one or more repeaters (see for example, Figures -1-10, paragraph [0005], lines 1-11, [0006], lines 1-7, [0009], lines 1-10, [0017], [0020], [0021], [0038] through [0042], [0054]-[0055], [0061], [0064], [0068], [0080], [0083], [0085], [0088], [0090]).

Regarding claims 2, 8, and 16, Bandeira teaches all the limitations of claims 1, 7, 15, and further, Bandeira teaches wherein the attributes are selected from the group comprising: signal characteristics (see for example, Figures –1-10, paragraph [0005], lines 1-11, [0006], lines 1-7, [0009], lines 1-10, [0006], lines 1-10, [0006], lines 1-11, [0006], lines 1-10, [0006], [0008], [000

Regarding claim 3, Bandeira teaches all the limitations of claim 1, and further, Bandeira teaches wherein the scanning receiver is connected to an antenna of the at least one repeater (see for example, paragraphs [0020], [0038], [0040], [0042], [0073], [0078], and [0088], scanning signals).

Regarding claim 4, Bandeira teaches all the limitations of claim 1, and further, Bandeira teaches wherein the at least one repeater and control and management device are connected via a wireless channel of one of the plurality of base stations (see for example, paragraphs [0005], [0008], [0017], [0020], [0021], [0045], [0046], [0076], [0077], [0082], [0084]).

Regarding claim 5, Bandeira teaches all the limitations of claim 1, and further, Bandeira teaches wherein the control and management device is connected to mobile switching center (see for example, Figurers 1-10, paragraphs [0005], [0008], [0017], [0020], [0021], [0045], [0046], [0077], [0082], [0084], controller connections and switching).

Regarding claim 7, Bandeira teaches all the limitations of claim 6, and further, Bandeira teaches wherein the attributes reflect a proximity to the network device (see for example, Figures -1-10, paragraph [0005], lines 1-11, [0006], lines 1-7, [0009], lines 1-10, [0017], lines 1-11, [0020], [0038], lines 1-16, [0040], [0042], [0073], [0064], [0068], [0078], and [0088]).

Regarding claim 9, Bandeira teaches all the limitations of claim 6, and further, Bandeira teaches wherein the network device is a repeater (see for example, Figure 1, paragraphs [0020], [0021], [0038] through [0042], [0054]-[0055], [0061], and [0083], the repeaters).

Regarding claim 10, Bandeira teaches all the limitations of claim 6, and further, Bandeira teaches wherein the network device is a micro station (see for example, Figure 1-10, paragraphs [0005], lines 1-11, [0006], lines 1-7, [0009], lines 1-10, [0017], lines 1-11, [0020], [0021], [0038] through [0042], [0054]-[0055], [0061], and [0083], the network station).

Regarding claim 11, Bandeira teaches all the limitations of claim 6, and further, Bandeira teaches wherein identifiers of the reverse channel are communicated along with the attributes (see for example, Figures 1, 6-10, paragraphs [0020], [0038], [0040], [0042], [0073], [0078], [0082], lines 1-9, [0084], lines 1-7, [0088]).

Regarding claim 12, Bandeira teaches all the limitations of claim 6, and further, Bandeira teaches wherein the attributes are communicated to the system manager via the receiver (see for example, Figures -1-10, paragraph [0005], lines 1-11, [0006], lines 1-7, [0009], lines 1-10, [0017], lines 1-11, [0020], [0038], lines 1-16, [0040], [0042], [0073], [0064], [0068], [0078], and [0088]).

Regarding claims 13 and 19, Bandeira teaches all the limitations of claims 6, 15, and further, Bandeira teaches wherein the attributes are compared to a threshold at the system manager (see for example, Figures -1-10, paragraph [0005], lines 1-11, [0006], lines 1-7, [0009], lines 1-10, [0017], lines 1-11, [0020], [0038], lines 1-16, [0040], [0042], [0073], [0064], [0068], [0078], and [0088]).

Regarding claims 14 and 20, Bandeira teaches all the limitations of claims 11, 15, and further, Bandeira teaches wherein the identifiers of the reverse channel are translated into mobile appliance identity information with information provided from a mobile switching center (see for example, Figures 1, 6-10, paragraphs [0020], [0038], [0040], [0042], [0073], [0078], [0082], lines 1-9, [0084], lines 1-7, [0088]).

Regarding claim 17, Bandeira teaches all the limitations of claims 15, and further, Bandeira teaches wherein the link is a wireless communication channel (see for example, Figures -1-10, paragraph [0005], lines 1-11, [0006], lines 1-7, [0009], lines 1-10, [0017], lines 1-11, [0019], [0020] -[0021], [0038] through [0042], [0054], [0061], [0083], the communication system with repeater and the base station received signal).

Regarding claim 18, Bandeira teaches all the limitations of claims 15, and further, Bandeira teaches wherein the link is a wireline (see

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In	Supplemental Box In case the space in any of the preceding boxes is not sufficient.									
for	for example, Figures -1-10, paragraph [0005], lines 1-11, [0006], lines 1-7, [0006], lines 1-7, [0009], lines 1-10, the wired link).									
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